ADDENDUM NO. 2

TO: ALL BIDDERS OF RECORD

PROJECT: EGGE DIVERSION DAM REMOVAL

FWP PROJECT #: 16-15

DATE: March 23, 2016

FROM: Jason Senn, Project Manager and Paul Sanford, Project Engineer (406-582-0221)

Acknowledge receipt of this addendum by inserting its number and date in the Proposal Form and on the Bid Envelope. Failure to do so may subject bidder to disqualification.

This Addendum forms a part of the Contract Documents. Clarification and/or modifications area as follows:

1) Modification – **Revised project schedule:**

   The project schedule shall be adjusted to reflect low water season which occurs after irrigation activities; typically early September. Construction activities shall not begin prior to September 1. Additionally willow cutting shall not occur prior to leaf off. Leaf off is anticipated to occur after October 1. Willow cuttings shall not occur prior to October 1. Construction start date will be flexible, but shall not occur prior to September 1, 2016 and no later than March 1, 2017.

2) Modification – **Revised Proposal Form is attached.**

   - Deleted Deductive Alternative Bid #1
   - Deleted "(Option 1 Disposal)" from the end of bid item descriptions
   - Deleted bid items "Scour Hole Fill – Import Sand & Gravel (Rock Type 1)" and "Scour Hole Fill – Import Pit Run (Rock Type 2)"
   - Added bid item "Scour Hole Fill – Import Sand & Gravel (Rock Type 1) and/or Import Pit Run (Rock Type 2)." The unit price will be the same for both these materials

3) Clarification – Bid Item No. 10 Bank Construction – Fabric Encapsulated Soil (Two Lifts). There is approximately 200 lineal feet of bank reconstruction. This bid item is paid by the lineal foot and includes all work for the bank reconstruction (including two lifts of fabric encapsulated soil). Refer to Part 4 of Section 02600 Reclamation.

4) Clarification – FWP will not cut or provide willows. The selected contractor will be responsible to cut willows from an onsite location identified by the project representative. Furthermore, the project representative must verify leaf off has happened prior to the contractor cutting willows.

5) Modification – **Plan Sheet 3:**

   Item No. 2.8 in materials table – revise the quantity of Rock Type 2 – Pit-Run to 900 CY.

6) Modification – **Plan Sheet 5:**

   Section C/4 – In the "Notes:" text, replace "18" with "24." The landowner has requested that the concrete fill area be capped with 24 inches of material including six inches of topsoil.

7) Modification – **Plan Sheet 6:**

   Change "FACINES" to "FASCINES."

   Section D/4 – Delete the "Rock Type III" note and leader.

   Detail 1/6 – Conifer fascines will be placed below the first layer of fabric encapsulated soil and not between the 1st and 2nd lifts of FES.

   Section E/4 – Change note to read "PLACE SALVAGED ROCK RIPRAP AT 2:1 SLOPE FROM RIVERBED TO ELEV. 3372.6 FT."

8) Clarification – Willow poles can be used in place of cottonwood poles.

9) Modification – **Concrete disposal:**

   The Option 1 and Option 2 locations for concrete disposal shown on Plan Sheet 4 have been removed. Concrete will be disposed of in the irrigation ditch downstream of the Option 1 location as described below. The upstream end of the new disposal location is located just downstream of a fence crossing the ditch approximately 650 feet downstream from the upstream end of the canal. Starting at this location and moving downstream, as much ditch as necessary can be used for concrete disposal.

10) Modification – **Section 02240 Demolition:**

    Replace Part 3.3.1.d with the following:

    Each lift of On-Site Excavated Sand/Gravel Material or Common Backfill over the debris will be placed in no greater than 18-inch high loose lifts. Compact each lift

using tracked equipment (dozer and/or excavator) by making at least two passes over the entire area of each lift at a minimum.

Replace Part 3.3.2.d with the following:

Each lift of On-Site Excavated Sand/Gravel Material or Common Backfill over the debris will be placed in no greater than 18-inch high loose lifts. Compact each lift using tracked equipment (dozer and/or excavator) by making at least two passes over the entire area of each lift at a minimum.

11) Clarification –The concrete headgate and the concrete wingwalls shall be removed according to the plans and specifications. The landowner does not want to preserve either of these structures.

12) Clarification – Riverbed excavation is limited to the area of disturbance shown on the plans. Within this area, river material can be excavated to elevation 3367. At the outer edge of the excavation limits (at the riverbank) or adjacent to the restored bank, excavation will match the existing ground and slope down at a 2H:1V slope to the bottom of the excavation.

13) Modification – **Part 3.5 of Section 02710 Seeding:**

Delete Parts 3.5.A and 3.5.B and replace with the following:

A. By June 2017, seeded areas will have 60% coverage with grass and no more than 10% of seeded areas should contain noxious weeds. If this criterion is not met, re-seed and control weeds in accordance with Section 02710.
B. By June 2018, or termination of the Owner's agreement with the landowner (whichever is first), seeded areas should have > 90% coverage with grass and noxious weeds occupying < 5% of the seeded area. If this criterion is not met, re-seed and control weeds in accordance with Section 02710.

14) Clarification – Sod if present, refers to sod in the irrigation canal location slated for concrete disposal.

15) Modification – **Part 3.1 of Section 02210 Protection of the Environment:**

In Part 3.1.I, delete the first sentence from the 2nd paragraph (~~Pumped dewatering operations are not an anticipated component of the project.~~).

16) Clarification – material sources:

Landowner (south side of river) Jim Ballard (office: 406-636-4122, cell: 406-855-8930) has pit run and topsoil material available for purchase. The pitrun material pit is located approximately 2.8 driving miles from the project site at latitude 46.283222 and longitude -108.882439. The Engineer obtained a 5-gallon bucket sample of the material and completed a gradation test. The results are attached.

Material from the Ballard pit described above is acceptable for use as Rock Type 2 – Pit-Run material. The topsoil pit is located approximately 0.7 driving miles from the project site at latitude 46.281919 and longitude -108.847992.

Landowner (north side of river) Trent Wallis (cell: 406-591-4512) may also have material sources pitrun and topsoil material. The pitrun material source must be approved by project engineer for use, prior to placement of material.

Both these landowners may also have a source for willow poles, cottonwood poles, and ponderosa and juniper fascines. All willow poles, cottonwood poles, and ponderosa and juniper fascines will be obtained near the project site.

17) Modification – **Part 3.6 of Section 02300 Earthwork:**

Delete Part 3.6 and replace with the following:

3.6 BACKFILL

Fill to the lines and grades shown, or as approved by the Owner's Representative. Make proper allowance for topsoil and other materials where required.

On-Site Excavated Sand/Gravel Material and Rock Type 1 - Gravel (if used) can be placed in the wet. Contractor shall dewater the scour area if the water surface elevation rises above the water surface elevation of the adjacent river or groundwater.

Place Rock Type 2 – Pit-Run material under dewatered conditions in 12 inch lifts or less and compact each lift using tracked equipment (dozer and/or excavator) by making at least two passes over the entire area of each lift at a minimum.

18) Modification – **Part 2.3 of Section 02600 Reclamation:**

Delete Parts 2.3.A and replace with the following:

A. Rock Type 1 – Gravel

Rock Type 1 will be naturally rounded in shape and will have a naturally smooth surface such as stream or river stone. Material will be 6-inch minus sand and gravel with less than or equal to 5% passing the No. 200 sieve.

In Part 2.3.B replace "No. 200 less than or equal to 5" with "No. 200 less than or equal to 12."

19) Modification – **Part 3.4 of Section 02230 Control of Water:**

In Part 3.4, delete the first sentence (~~Pumped dewatering is not required~~).

20) Clarification – Any silt material excavated from the river shall be used for fill in the concrete disposal area. If necessary, dry or dewater the silt material to allow for compaction as specified in this Addendum (Section 02240 Demolition).

21) Modification – **Part 3.1.2 of Section 01300 Submittals:**

Under the Item column, in row two, replace “Rock Type 2 – Cobble” with “Rock Type 2 – Pit-Run.”

Attachments:

Revised Proposal Form
Ballard Pitrun Gradation
Location of Ballard Pitrun Pit and Topsoil Pit

PROPOSAL – ADDENDUM #2
March 23, 2016

Montana Fish, Wildlife & Parks
Design and Construction Section
PO Box 200701, 1522 9th Avenue
Helena, Montana 59620-0701

FWP Project #: 16-15

The undersigned, having familiarized himself with the conditions of the work and the contract documents as prepared by Allied Engineering Services, Inc. agrees to furnish all labor, materials, equipment, and services necessary to complete all general construction work, as bid herein, for a project entitled **Egge Diversion Dam Removal, Golden Valley County, Montana** in accordance with the Contract Documents including all Addenda. Bidder agrees to perform all work described below at the price shown as follows:

Reminder to Contractors: All Unit Prices must be filled in on the Bid Form for a valid bid (18-2-303 MCA).

BASE BID:

Item	Description	Estimated Quantity	Unit Measure	Unit Price	Total Amount
1.	Mobilization/Demobilization	1	LS	$	$
2.	Control of Water	1	LS	$	$
3.	Remove and Replace Fence	300	LF	$	$
4.	Demolition	1	LS	$	$
5.	Earthwork	1	LS	$	$
6.	Scour Hole Fill – Import Sand & Gravel (Rock Type 1) and/or Import Pit Run (Rock Type 2)	1400	CY	$	$
7.	Scour Hole Fill – Import Topsoil	450	CY	$	$
8.	Bank Construction – Salvage Rock	1	LS	$	$
9.	Bank Construction – Fabric Encapsulated Soil (Two Lifts)	200	LF	$	$
10.	Floodplain Treatment – Wood Material in Trenches (provisional)	10	EA	$	$
11.	Reclamation	1	LS	$	$
12.	Seeding	4,200	SY	$	$
13.	Erosion Control: Erosion Control Fabric (provisional)	1,000	SY	$	$

14.	Erosion Control: Straw Wattle (provisional)	400	LF	$	$
			Base Bid Total:	**$**	

BASE BID:

_____

AND _____/100 DOLLARS ($_____).

And certifies that he is a duly and regularly licensed contractor registered with the Montana Department of Labor and Industry:

FIRM NAME:_____ TELEPHONE NO._____

SIGNED BY:_____ DATE:_____ REG #_____

BUSINESS ADDRESS_____

ADDENDUM NO. _____ DATE: _____

ADDENDUM NO._____ DATE:_____

ADDENDUM NO._____ DATE:_____

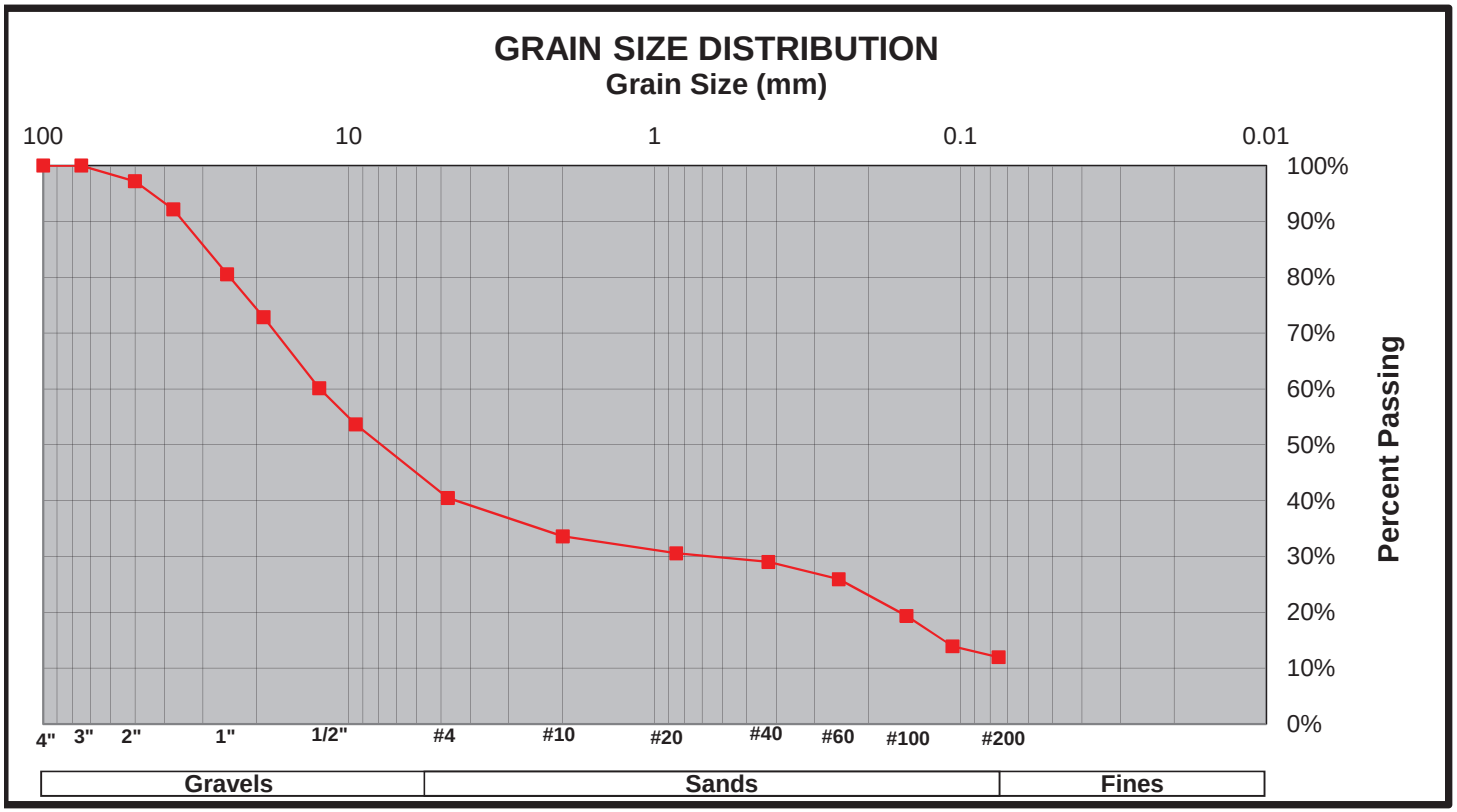
GRAIN SIZE DISTRIBUTION (ASTM D-422)

Project: Musselshell River - Egge Diversion
Project Number: 14-043.1
Sample Identification: Gravel Pit
Soil Classification: Sandy Gravel
Date Sampled: March 10, 2016
Date Tested: March 14, 2016
Tested By: GDF

32 Discovery Drive
Bozeman, MT 59718
Phone (406) 582-0221
Fax (406) 582-5770

Summary of Lab Test Data

Natural Moisture Content:	**NA**
Gravel Portion (retained on #4 sieve)**:**	**59.5%**
Sand Portion (passing # 4 & retained on #200 sieve)**:**	**28.5%**
Fines Portion (passing #200 sieve)**:**	**12.0%**



Sieve Size	Percent Passing
4"	100.0%
3"	100.0%
2"	97.2%
1.5"	92.1%
1"	80.5%
3/4"	72.8%
3/8"	53.7%
#4	40.5%
#10	33.6%
#20	30.6%
#40	29.1%
#60	26.0%
#100	19.3%
#140	13.9%
#200	12.0%

Reviewed By: _____

Egge Diversion Dam Removal

Location of Ballard topsoil and pitrun material sources

Ballard Pit-Run

Hamilton Rd

Egge Diversion

Egge Rd

Ballard Topsoil

Brusk Rd

3 Pines Rd

N

2000 ft

Google earth

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